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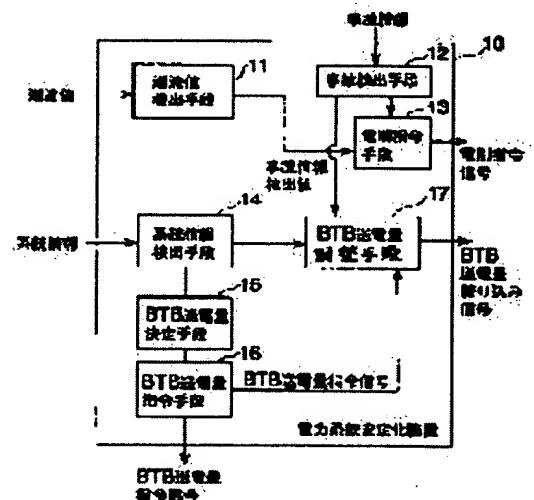
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(54) POWER SYSTEM STABILIZATION SYSTEM AND FREQUENCY STABILIZATION SYSTEM

(57) Abstract:

PURPOSE: To prevent the unstable phenomenon, including the fluctuation of frequency, due to power disturbance from spreading upon occurrence of fault on a power system by determining an amount of power supply to an interconnected DC system based on system information and then determining a restriction amount of power supply to the interconnected DC system based on fault information and the amount of power supply thus determined.

CONSTITUTION: Upon occurrence of a fault which may cause a network separation on a power system, means 12 detects the fault. A fault information detection value is then delivered to a DC transmission interconnection (BTB) transmission amount regulation means 17. The means 17 decides whether a BTB must be localized from the fault information detection value and a BTB transmission amount command signal and when a decision is made that a BTB must be localized, a BTB transmission amount localizing signal is delivered to an AC interconnection line. This system prevents the imbalance phenomenon, including the fluctuation of frequency, due to power disturbance from spreading upon occurrence of fault in a power system facility or on the AC interconnection line.



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